



Water-Data Report UT-2005

09182400 CASTLE CREEK BELOW CASTLE VALLEY, NEAR MOAB, UT

Colorado River Basin

LOCATION.--Lat 38°40'26", long 109°26'58" referenced to North American Datum of 1927, in SE ¼ SW ¼ NE ¼ sec.35, T.24 S., R.22 E., Grand County, Hydrologic Unit 14030005, a tributary between Dolores River and Green River, on left bank and 16.5 mi northwest of Moab.

DRAINAGE AREA.--58.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1992 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,120 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Small diversions for irrigation are above and below the station. This year there were several more peaks over the base but the gage height and discharge could not be determined due to problems with the orifice.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 321 ft³/s, Sep 13, 1997, gage height, 7.46 ft; minimum daily discharge, 2.9 ft³/s, Jul 31, Sep 2, 3, 2004.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 09	0715	*319	*7.90

Minimum daily discharge, 3.2 ft³/s, Oct 20, 21.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.4	3.8	5.3	e6.1	e5.5	5.2	5.3	3.8	7.4	7.7	e9.1	4.1
2	3.4	4.2	5.3	e6.1	e5.4	5.2	5.5	3.8	7.6	7.4	e5.6	3.9
3	3.4	3.6	5.2	e6.0	e5.5	5.2	5.6	3.8	9.1	6.0	e4.7	4.1
4	3.3	3.6	5.3	e5.9	e5.4	5.3	5.6	3.8	10	5.3	e4.6	4.1
5	3.5	3.6	5.7	e6.0	e5.4	5.1	5.7	3.7	8.5	5.0	e4.6	4.3
6	3.5	3.6	5.6	e5.9	e5.3	5.1	5.7	3.7	7.2	4.9	e4.4	4.1
7	3.5	3.7	5.6	e5.8	e5.4	5.1	5.6	3.9	5.9	5.0	e4.4	4.0
8	3.5	3.8	5.7	e5.7	e5.4	5.1	5.6	4.0	5.7	4.8	e4.5	4.4
9	3.5	5.7	5.5	e5.7	e5.3	5.0	5.7	4.0	5.8	4.8	e4.5	e7.0
10	3.5	4.0	5.2	e5.6	e5.3	5.0	4.9	4.1	5.9	4.6	e7.0	e12
11	3.3	3.8	5.5	e5.6	e5.3	5.1	4.7	4.2	7.7	4.7	e5.2	e6.6
12	3.4	4.0	5.5	e5.6	e5.2	4.8	4.5	4.0	7.8	4.5	e4.3	e6.2
13	3.4	4.0	5.7	e5.5	e5.3	5.0	4.5	3.8	6.9	e4.6	e4.4	e6.0
14	3.3	4.1	5.6	e5.6	e5.3	5.0	4.4	4.1	5.9	e4.5	e4.3	e5.9
15	3.4	4.4	5.6	e5.5	e5.2	5.0	4.4	3.8	5.7	e4.3	e4.3	e5.8
16	3.5	4.8	5.5	e5.5	e5.2	5.0	4.5	3.7	5.5	e4.3	e6.0	e5.7
17	3.4	4.8	5.7	e5.6	e5.3	4.6	4.3	3.7	6.1	e4.2	e4.8	e5.5
18	3.4	4.8	5.7	e5.5	e5.4	4.1	4.0	3.8	6.1	e4.0	e4.4	e5.3
19	3.3	4.9	5.8	e5.5	e5.3	4.4	3.9	4.0	5.9	e4.0	3.8	e5.2
20	3.2	5.1	5.8	e5.4	e5.2	4.6	3.8	4.0	5.6	e4.1	4.1	e5.1
21	3.2	5.0	5.8	e5.5	e5.2	4.5	4.1	4.6	5.5	e4.2	4.1	e4.9
22	3.6	4.9	5.8	e5.5	e5.2	4.4	3.9	6.1	5.6	e4.3	4.1	e4.7
23	3.5	4.9	5.8	e5.4	e5.3	4.6	3.9	7.5	7.2	e4.4	4.1	e4.6
24	3.5	4.9	5.7	e5.5	e5.3	4.7	4.3	8.6	8.0	e4.4	4.1	e4.5
25	3.7	5.0	5.8	e5.5	e5.2	5.9	4.5	10	7.1	e8.8	4.0	e4.6
26	3.7	5.1	5.9	e5.6	e5.3	6.6	4.5	12	7.0	e5.2	4.0	e4.6
27	3.8	5.2	6.2	e5.7	e5.3	5.8	3.9	12	6.8	e4.9	3.8	e4.7
28	4.7	5.7	6.8	e5.6	e5.3	6.0	3.9	10	7.1	e4.8	4.0	e15
29	4.2	5.3	e7.0	e5.6	---	5.4	3.8	9.9	7.2	e4.7	4.0	e10
30	3.7	5.3	6.6	e5.5	---	5.6	3.7	10	6.9	e4.6	3.9	e6.6
31	3.5	---	6.2	e5.6	---	5.3	---	8.6	---	e4.5	3.8	---
Total	109.2	135.6	178.4	175.1	148.7	157.7	138.7	177.0	204.7	153.5	142.9	173.5
Mean	3.52	4.52	5.75	5.65	5.31	5.09	4.62	5.71	6.82	4.95	4.61	5.78
Max	4.7	5.7	7.0	6.1	5.5	6.6	5.7	12	10	8.8	9.1	15
Min	3.2	3.6	5.2	5.4	5.2	4.1	3.7	3.7	5.5	4.0	3.8	3.9
Ac-ft	217	269	354	347	295	313	275	351	406	304	283	344

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.88	7.09	7.08	6.93	6.81	6.77	5.87	5.99	6.22	4.98	4.57	5.17
Max	8.33	8.95	8.36	8.53	8.37	8.77	8.43	17.2	15.4	9.85	6.72	7.50
(WY)	(1998)	(1998)	(1996)	(1993)	(1998)	(1998)	(1993)	(1993)	(1993)	(1995)	(1997)	(1997)
Min	3.52	4.52	5.75	5.64	5.31	5.06	4.07	3.80	3.24	3.31	3.32	3.17
(WY)	(2005)	(2005)	(2005)	(1999)	(2005)	(2003)	(2003)	(2004)	(2004)	(1994)	(2004)	(2004)

09182400 CASTLE CREEK BELOW CASTLE VALLEY, NEAR MOAB, UT—Continued**SUMMARY STATISTICS**

	Calendar Year 2004	Water Year 2005	Water Years 1992 - 2005	
Annual total	1,639.6	1,895.0		
Annual mean	4.48	5.19	6.09	
Highest annual mean			8.84	1993
Lowest annual mean			4.75	2004
Highest daily mean	7.8	Jan 2	15	Sep 28 May 27, 1993
Lowest daily mean	2.9	Jul 31	3.2	Oct 20 2.9 Jul 31, 2004
Annual seven-day minimum	3.0	Jul 29	3.3	Oct 15 3.0 Jul 29, 2004
Annual runoff (ac-ft)	3,250	3,760	4,410	
10 percent exceeds	6.4	6.8	8.3	
50 percent exceeds	3.8	5.1	6.0	
90 percent exceeds	3.1	3.7	3.7	

